

River and Flood Water Rescue Operations

Course Outline

Course Objectives: To provide the student with...

- a) The knowledge of lessons learned from past river and flood water incidents.
- b) The knowledge of hazard assessment and risk vs. benefit analysis.
- c) The knowledge of incident pre-planning for river and flood incidents.
- d) The knowledge of moving water hydrology and water terminology.
- e) The knowledge of responses to river and flood rescue incidents, including vehicles in the water.
- f) The knowledge of the uses and limitations of helicopters during moving water incidents.
- g) The knowledge of selecting and using PPE for moving water incidents.
- h) The knowledge of medical considerations for victims of moving water emergencies.
- i) The opportunity to plan and perform a nighttime search and rescue.
- j) The opportunity to perform shore-based, boat-based and in-water rescues.

Course Content	32:00
1. Welcome and course overview	0:15
2. Defining the river and flood rescue problem	0:30
3. NFPA rescue standards	0:15
4. Rescue operations at flood water rescue incidents	1:00
5. Performing hazards assessments	0:30
6. Performing a Risk vs. Benefit Analysis	0:15
7. Incident Command for moving water incidents	0:30
8. Incident pre-planning for moving water incidents	0:30
9. Organizing and conducting searches operations	1:00
10. Utilizing helicopters during moving water incidents	0:15
11. Rescue operations for vehicles trapped in moving water	0:30
12. Introduction to hydrology and moving water terminology	1:00
13. Selection and uses of water rescue PPE and equipment	0:30
14. Medical considerations for victims of moving water emergencies	1:00
15. Ropes, knots, equipment review	1:00
16. Mechanical advantage review	1:00
17. How to use a rescue throw bag	1:00
18. How to swim in moving water	1:00
19. How to swim over a strainer	1:00
20. How to perform shallow water crossings	1:00

21. How to get ropes across a waterway.....	1:00
22. How to setup and use a tensioned diagonal.....	1:00
23. How to use river rescue boards.....	1:00
24. How to perform in-water contact rescues.....	1:00
25. How to perform tethered swimmer rescues.....	1:00
26. How to package patients with spinal emergencies in the water.....	1:00
27. How to use inflated fire hose as a water rescue tool.....	1:00
28. Night search and rescue scenario/drill.....	3:00
29. How to perform basic boat operations.....	1:30
30. How to right an overturned boat.....	1:00
31. How to get a victim in a boat by parbuckling.....	0:30
32. How to perform a 2 & 4 point tethered boat system.....	1:00
33. How to setup and use a highline with a tethered boat.....	2:00
34. How to setup and use a highline with a mid-point rescuer drop.....	2:00

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River and Flood Water Rescue Operations

Calendar of Events

DAY	TOPIC	TITLE	TIME	ACTIVITY	EVALUATION
Day 1	1	Welcome and course overview	0:15		
	2	Defining the river and flood rescue problem	0:30		
	3	NFPA rescue standards	0:15		
	4	Rescue operations at flood water rescue incidents	1:00		
	5	Performing hazards assessments	0:30		
	6	Performing a Risk vs. Benefit Analysis	0:15		
	7	Incident Command for moving water incidents	0:30		
	8	Incident pre-planning for moving water incidents	0:30		
	9	Organizing and conducting searches operations	1:00		
	10	Utilizing helicopters during moving water incidents	0:15		
	11	Rescue operations for vehicles trapped in moving water	0:30		
	12	Introduction to hydrology and moving water terminology	1:00		
	13	Selection and uses of water rescue PPE and equipment	0:30		
	14	Medical considerations for victims of moving water emergencies	1:00		
Day 1 Total			8:00		
Day 2	15	Ropes, knots, and equipment review	1:00		
	16	Mechanical advantage review	1:00		
	17	How to use a rescue throw bag	1:00		
	18	How to swim in moving water	1:00		
	19	How to swim over a strainer	1:00		
	20	How to perform shallow water crossings	1:00		
	21	How to get ropes across a waterway	1:00		
	22	How to setup and use a tensioned diagonal	1:00		
Day 2 Total			8:00		
Day 3	23	How to use river rescue boards	1:00		
	24	How to perform in-water contact rescues	1:00		
	25	How to perform tethered swimmer rescues	1:00		

DAY	TOPIC	TITLE	TIME	ACTIVITY	EVALUATION
Day 3 cont.	26	How to package patients with spinal emergencies in the water	1:00		
	27	How to use inflated fire hose as a water rescue tool	1:00		
		Night search and rescue scenario/drill	3:00		
		Day 3 Total	8:00		
Day 4	28	How to perform basic boat operations	1:30		
	29	How to right an overturned boat	1:00		
	30	How to get a victim into a boat using parbuckling	0:30		
	31	How to perform a 2 & 4 point tethered boat system	1:00		
	32	How to setup and use a highline with a tethered boat	2:00		
	33	How to setup and use a highline with amid-point rescuer drop	2:00		
		Day 4 Total	8:00		
		Course Total	32:00		

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